**Quanteon**

**V03**

**Relevant and important information for publication of flow cytometric data**

Remember to acknowledge the FACS Core Facility, Aarhus University, in your publications and presentations (oral presentations and posters).

Send your papers to *facs@au.dk* for review and we will give you feedback within 2 workdays.

**Methods and materials:**

*Instrument*

* NovoCyte Quanteon 4025 flow cytometer equipped with four lasers (405 nm, 488 nm, 561 nm and 637 nm) and 25 fluorescence detectors (Agilent, Santa Clara, CA).

*Software*

* Software: NovoExpress (v. 1.6.2, Agilent, Santa Clara, CA).
* Other analysis software programs used: e.g. FlowJo or FCS Express (incl. version and company).

*Experimental*

* Antibodies (clone, isotype, manufacturer, fluorochrome) or fluorescent proteins used and in which filters they were detected.
* Antibody concentrations, staining conditions (incubation time, temperature, buffers, blocking etc.). State if antibody titration was performed.
* Controls included: E.g. compensation controls, biological controls, FMO controls, stimulation controls, mock controls.
* For compensation, state if you used beads or cells.
* Stop conditions: E.g. number of events in a specific gate or a sample volume.

Laser and filter overview on next page ⇒

**Abbreviations:**

|  |  |
| --- | --- |
| Forward Scatter | FSC |
| Side Scatter | SSC |

The Quanteon uses three different photodetectors that convert light to electrical signals:

* SSC: Avalance Photodiode (ADP)
* FSC: Photodiode (PD)
* Fluorescence: Silicon Photomultiplier (SiPM)

All lasers are coherent OBIS Solid State Lasers placed in the following direction spanning over 80 µm:

1. 488 nm
2. 561 nm
3. 637 nm
4. 405 nm

The table below is an example of how to provide information about your experiment.

Enter the fluorochrome, fluorescent protein or DNA dye you used into the filter you used.

|  |  |  |  |
| --- | --- | --- | --- |
| Laser & power | Wavelength detected | Fluorochrome/fluorescent protein | Antigen |
| 405 nm | 445/45 |  |  |
| 100 mW | 530/30 |  |  |
|  | 586/20 |  |  |
|  | 615/20 |  |  |
|  | 667/30 |  |  |
|  | 685-705 |  |  |
|  | 725/40 |  |  |
|  | 757-810 |  |  |
| 488 nm | 561/14 | FSC |  |
| 100 mW | 530/30 |  |  |
|  | 586/20 |  |  |
|  | 615/20 |  |  |
|  | 667/30 |  |  |
|  | 685-705 |  |  |
|  | 725/40 |  |  |
|  | 757-810 |  |  |
| 561 nm | 561/14 | SSC |  |
| 100 mW | 586/20 |  |  |
|  | 615/20 |  |  |
|  | 667/30 |  |  |
|  | 685-705 |  |  |
|  | 725/40 |  |  |
|  | 757-810 |  |  |
| 637 nm | 667/30 |  |  |
| 100 mW | 685-705 |  |  |
|  | 725/40 |  |  |
|  | 757-810 |  |  |